



IFWO

## RAW SEQUENCE LISTING

DATE: 10/13/2004

PATENT APPLICATION: US/10/716,379

TIME: 09:14:49

Input Set : A:\66671-085.TXT

Output Set: N:\CRF4\10132004\J716379.raw

4 <110> APPLICANT: Hunter, Tony  
 5 Kun Ping, Lu  
 6 Hanes, Steven D.  
 8 <120> TITLE OF INVENTION: NIMA INTERACTING PROTEINS  
 11 <130> FILE REFERENCE: 66671-085  
 13 <140> CURRENT APPLICATION NUMBER: US 10/716,379  
 14 <141> CURRENT FILING DATE: 2003-11-17  
 16 <150> PRIOR APPLICATION NUMBER: US 10/616,410  
 17 <151> PRIOR FILING DATE: 2003-07-08  
 19 <160> NUMBER OF SEQ ID NOS: 22  
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 1014  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Homo sapiens  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: CDS  
 30 <222> LOCATION: (25)...(513)  
 32 <400> SEQUENCE: 1



33	tgctggccag cacctcgagg gaag atg gcg gac gag gag aag ctg ccg ccc	51
34	Met Ala Asp Glu Glu Lys Leu Pro Pro	
35	1 5	
37	ggc tgg gag aag cgc atg agc cgc agc tca ggc cga gtg tac tac ttc	99
38	Gly Trp Glu Lys Arg Met Ser Arg Ser Ser Gly Arg Val Tyr Tyr Phe	
39	10 15 20 25	
41	aac cac atc act aac gcc agc cag tgg gag cgg ccc agc ggc aac agc	147
42	Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg Pro Ser Gly Asn Ser	
43	30 35 40	
45	agc agt ggt ggc aaa aac ggg cag ggg gag cct gcc agg gtc cgc tgc	195
46	Ser Ser Gly Gly Lys Asn Gly Gln Gly Glu Pro Ala Arg Val Arg Cys	
47	45 50 55	
49	tcg cac ctg ctg gtg aag cac agc cag tca cgg cgg ccc tcg tcc tgg	243
50	Ser His Leu Leu Val Lys His Ser Gln Ser Arg Arg Pro Ser Ser Trp	
51	60 65 70	
53	cgg cag gag aag atc acc cgg acc aag gag gag gcc ctg gag ctg atc	291
54	Arg Gln Glu Lys Ile Thr Arg Thr Lys Glu Glu Ala Leu Glu Leu Ile	
55	75 80 85	
57	aac ggc tac atc cag aag atc aag tcg gga gag gag gac ttt gag tct	339
58	Asn Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser	
59	90 95 100 105	
61	ctg gcc tca cag ttc agc gac tgc agc tca gcc aag gcc agg gga gac	387
62	Leu Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp	
63	110 115 120	

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/716,379

DATE: 10/13/2004

TIME: 09:14:49

Input Set : A:\66671-085.TXT

Output Set : N:\CRF4\10132004\J716379.raw

```

65 ctg ggt gcc ttc agc aga ggt cag atg cag aag cca ttt gaa gac gcc      435
66 Leu Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala
67          125          130          135
69 tcg ttt gcg ctg cgg acg ggg gag atg agc ggg ccc gtg ttc acg gat      483
70 Ser Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp
71          140          145          150
73 tcc ggc atc cac atc atc ctc cgc act gag tgagggtggg gagcccaggc      533
74 Ser Gly Ile His Ile Ile Leu Arg Thr Glu
75          155          160
77 ctggcctcgg ggcagggcag ggcggctagg ccggccagct ccccttgcc cgccagccag      593
78 tggccgaacc cccactccc tgccaccgtc acacagtatt tattgttccc acaatggctg      653
79 ggaggggggcc cttccagatt gggggccctg ggtccccac tccctgtcca tccccagttg      713
80 gggctgcgac cgccagattc tcccttaagg aattgacttc agcaggggtg ggaggctccc      773
81 agaccagggg cagtgtggtg ggaggggtgt tccaaagaga aggcctggtc agcagagccg      833
82 ccccggtgcc cccaggtgc tggaggcaga ctcgagggcc gaattgtttc tagttaggcc      893
83 acgtcctctt gttcagtcgc aaaggtgaac actcatgcgg cagccatggg ccctctgagc      953
84 aactgtgcag accctttcac cccaattaa acccagaacc actaaaaaaaa aaaaaaaaaa      1013
85 a                                          1014
87 <210> SEQ ID NO: 2
88 <211> LENGTH: 163
89 <212> TYPE: PRT
90 <213> ORGANISM: Homo sapiens
92 <400> SEQUENCE: 2
93 Met Ala Asp Glu Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser
94 1          5          10          15
95 Arg Ser Ser Gly Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser
96          20          25          30
97 Gln Trp Glu Arg Pro Ser Gly Asn Ser Ser Ser Gly Gly Lys Asn Gly
98          35          40          45
99 Gln Gly Glu Pro Ala Arg Val Arg Cys Ser His Leu Leu Val Lys His
100          50          55          60
101 Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg Gln Glu Lys Ile Thr Arg
102 65          70          75          80
103 Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn Gly Tyr Ile Gln Lys Ile
104          85          90          95
105 Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu Ala Ser Gln Phe Ser Asp
106          100          105          110
107 Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu Gly Ala Phe Ser Arg Gly
108          115          120          125
109 Gln Met Gln Lys Pro Phe Glu Asp Ala Ser Phe Ala Leu Arg Thr Gly
110          130          135          140
111 Glu Met Ser Gly Pro Val Phe Thr Asp Ser Gly Ile His Ile Ile Leu
112 145          150          155          160
113 Arg Thr Glu
116 <210> SEQ ID NO: 3
117 <211> LENGTH: 31
118 <212> TYPE: DNA
119 <213> ORGANISM: Homo sapiens
121 <400> SEQUENCE: 3

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/716,379

DATE: 10/13/2004

TIME: 09:14:49

Input Set : A:\66671-085.TXT

Output Set: N:\CRF4\10132004\J716379.raw

```

122 gcgcctgcag tatctataya tggaataytg t 31
124 <210> SEQ ID NO: 4
125 <211> LENGTH: 31
126 <212> TYPE: DNA
127 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 4
130 gcgcggatcc rggtttcaga ggktyraasa g 31
132 <210> SEQ ID NO: 5
133 <211> LENGTH: 30
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 5
138 gcgcgtacca agwccacygt ayattattcc 30
140 <210> SEQ ID NO: 6
141 <211> LENGTH: 13
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: synthetic peptide
148 <400> SEQUENCE: 6
149 Met Tyr Asp Val Pro Asp Tyr Ala Ser Arg Pro Gln Asn
150 1 5 10
153 <210> SEQ ID NO: 7
154 <211> LENGTH: 32
155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: synthetic peptide
161 <400> SEQUENCE: 7
162 Met Ala Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Pro Glu Phe
163 1 5 10 15
164 Leu Val Asp Pro Pro Gly Ser Lys Asn Ser Ile Ala Arg Gly Lys Met
165 20 25 30
168 <210> SEQ ID NO: 8
169 <211> LENGTH: 39
170 <212> TYPE: PRT
171 <213> ORGANISM: Homo sapiens
173 <400> SEQUENCE: 8
174 Glu Lys Leu Pro Pro Gly Trp Glu Lys Arg Met Ser Arg Ser Ser Gly
175 1 5 10 15
176 Arg Val Tyr Tyr Phe Asn His Ile Thr Asn Ala Ser Gln Trp Glu Arg
177 20 25 30
178 Pro Ser Gly Asn Ser Ser Ser
179 35
182 <210> SEQ ID NO: 9
183 <211> LENGTH: 39
184 <212> TYPE: PRT
185 <213> ORGANISM: Yeast ESS1
187 <400> SEQUENCE: 9

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/716,379

DATE: 10/13/2004

TIME: 09:14:49

Input Set : A:\66671-085.TXT

Output Set: N:\CRF4\10132004\J716379.raw

```

188 Thr Gly Leu Pro Thr Pro Trp Thr Val Arg Tyr Ser Lys Ser Lys Lys
189 1 5 10 15
190 Arg Glu Tyr Phe Phe Asn Pro Glu Thr Lys His Ser Gln Trp Glu Glu
191 20 25 30
192 Pro Glu Gly Thr Asn Lys Asp
193 35
196 <210> SEQ ID NO: 10
197 <211> LENGTH: 38
198 <212> TYPE: PRT
199 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 10
202 Val Pro Leu Pro Ala Gly Trp Glu Met Ala Lys Thr Ser Ser Gly Gln
203 1 5 10 15
204 Arg Tyr Phe Leu Asn His Ile Asp Gln Thr Thr Thr Trp Gln Asp Pro
205 20 25 30
206 Arg Lys Ala Met Leu Ser
207 35
210 <210> SEQ ID NO: 11
211 <211> LENGTH: 38
212 <212> TYPE: PRT
213 <213> ORGANISM: Mus musculus
215 <400> SEQUENCE: 11
216 Ser Pro Leu Pro Pro Gly Trp Glu Glu Arg Gln Asp Val Leu Gly Arg
217 1 5 10 15
218 Thr Tyr Tyr Val Asn His Glu Ser Arg Arg Thr Gln Trp Lys Arg Pro
219 20 25 30
220 Ser Pro Asp Asp Asp Leu
221 35
224 <210> SEQ ID NO: 12
225 <211> LENGTH: 38
226 <212> TYPE: PRT
227 <213> ORGANISM: Yeast RSPS
229 <400> SEQUENCE: 12
230 Gly Arg Leu Pro Pro Gly Trp Glu Arg Arg Thr Asp Asn Phe Gly Arg
231 1 5 10 15
232 Thr Tyr Tyr Val Asp His Asn Thr Arg Thr Thr Thr Trp Lys Arg Pro
233 20 25 30
234 Thr Leu Asp Gln Thr Glu
235 35
238 <210> SEQ ID NO: 13
239 <211> LENGTH: 38
240 <212> TYPE: PRT
241 <213> ORGANISM: Homo sapiens
243 <400> SEQUENCE: 13
244 Thr Ser Val Gln Gly Pro Trp Glu Arg Ala Ile Ser Pro Asn Lys Val
245 1 5 10 15
246 Pro Tyr Tyr Ile Asn His Glu Thr Gln Thr Thr Cys Trp Asp His Pro
247 20 25 30
248 Lys Met Thr Glu Leu Tyr

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/716,379

DATE: 10/13/2004

TIME: 09:14:49

Input Set : A:\66671-085.TXT

Output Set: N:\CRF4\10132004\J716379.raw

```

249          35
252 <210> SEQ ID NO: 14
253 <211> LENGTH: 37
254 <212> TYPE: PRT
255 <213> ORGANISM: Rattus rattus
257 <400> SEQUENCE: 14
258 Ser Asp Leu Pro Ala Gly Trp Met Arg Val Gln Asp Thr Ser Gly Thr
259 1          5          10          15
260 Tyr Tyr Trp His Ile Pro Thr Gly Thr Thr Gln Trp Glu Pro Pro Gly
261          20          25          30
262 Arg Ala Ser Pro Ser
263          35
266 <210> SEQ ID NO: 15
267 <211> LENGTH: 14
268 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: consensus sequence
274 <400> SEQUENCE: 15
275 Leu Pro Gly Trp Glu Gly Tyr Tyr Asn His Thr Thr Trp Pro
276 1          5          10
279 <210> SEQ ID NO: 16
280 <211> LENGTH: 105
281 <212> TYPE: PRT
282 <213> ORGANISM: Homo sapiens
284 <400> SEQUENCE: 16
285 His Leu Leu Val Lys His Ser Gln Ser Arg Arg Pro Ser Ser Trp Arg
286 1          5          10          15
287 Gln Glu Lys Ile Thr Arg Thr Lys Glu Glu Ala Leu Glu Leu Ile Asn
288          20          25          30
289 Gly Tyr Ile Gln Lys Ile Lys Ser Gly Glu Glu Asp Phe Glu Ser Leu
290          35          40          45
291 Ala Ser Gln Phe Ser Asp Cys Ser Ser Ala Lys Ala Arg Gly Asp Leu
292          50          55          60
293 Gly Ala Phe Ser Arg Gly Gln Met Gln Lys Pro Phe Glu Asp Ala Ser
294 65          70          75          80
295 Phe Ala Leu Arg Thr Gly Glu Met Ser Gly Pro Val Phe Thr Asp Ser
296          85          90          95
297 Gly Ile His Ile Ile Leu Arg Thr Glu
298          100          105
301 <210> SEQ ID NO: 17
302 <211> LENGTH: 107
303 <212> TYPE: PRT
304 <213> ORGANISM: Yeast ESS1
306 <400> SEQUENCE: 17
307 His Ile Leu Ile Lys His Lys Asp Ser Arg Arg Pro Ala Ser His Arg
308 1          5          10          15
309 Ser Glu Asn Ile Thr Ile Ser Lys Gln Asp Ala Thr Asp Glu Leu Lys
310          20          25          30

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/716,379

DATE: 10/13/2004

TIME: 09:14:51

Input Set : A:\66671-085.TXT

Output Set: N:\CRF4\10132004\J716379.raw